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antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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Anti-MCK10/DDR1 Antibody

Catalog Number: PA1878

About DDR1

DDR1 (Discoidin domain receptor family, member 1) also known as NEP, EDDR1, NTRK4, TRKE, DDR, CAK or RTK6, is a human gene. The protein encoded by this gene is a RTK that is widely expressed in normal and transformed epithelial cells and is activated by various types of collagen.This protein belongs to a subfamily of tyrosine kinase receptors with a homology region to the Dictyostelium discoideum protein discoidin I in their extracellular domain.The DDR1 gene is mapped on 6p21.33. The fibrillar collagens and immobilized collagen activated DDR1 receptor phosphorylation after prolonged treatment. Bhatt et al. (2000) showed that Ddr1 was highly expressed in the cerebellum of developing and adult mouse brain, and that both Ddr1 and collagen IV were highly expressed in the pial layer of the cerebellar cortex. Cocultures of collagen I- and IV-expressing mouse pial cells with Ddr1-expressing granule cells resulted in granule cell neurite extension. Inhibition of collagen-Ddr1signaling reduced granule cell neurite elongation.

Overview

Product Name	Anti-MCK10/DDR1 Antibody
Reactive Species	Human
Description	Boster Bio Anti-MCK10/DDR1 Antibody catalog # PA1878. Tested in WB applications. This antibody reacts with Human.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
Storage Instructions	Store at -20˚C for one year from date of receipt. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q08345

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human MCK10, different from the related rat sequence by one amino acid, and from the related mouse sequence by two amino acids.
Predicted Reactive Species	Bovine
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins

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Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Western blot, 0.1-0.5ug/ml, Human

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Anti-MCK10/DDR1 Antibody (PA1878) Images

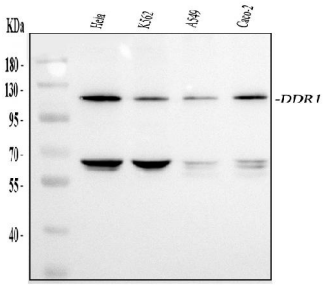

Figure 1. Western blot analysis of DDR1 using anti-DDR1 antibody (PA1878).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human Hela whole cell lysates,
Lane 2: human K562 whole cell lysates,
Lane 3: human A549 whole cell lysates,
Lane 4: human CACO-2 whole cell lysates.
After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-DDR1 antigen affinity purified polyclonal antibody (Catalog # PA1878) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for DDR1 at approximately 120 kDa. The expected band size for DDR1 is at 101 kDa.